

ND-363US  
Amendment dated 08/19/2004

09/708,516

01910030aa  
Reply to office action mailed 05/19/2004

The following is a complete listing of all claims in the application, with an indication of the status of each:

**Listing of claims:**

- 1        1. (currently amended) A portable telephone radio set ~~with an interference~~  
2        ~~detection function~~ to which a terminal equipment can be externally connected  
3        to effect data communication therewith, said portable telephone set having an  
4        interference detection function comprising:  
5                a warning section for providing warning of radio wave interference to  
6        a user of said portable telephone radio set, said warning being provided by  
7        audio or visual signals; and  
8                a control circuit section for selecting and switching among perch  
9        channels, said control circuit detecting interference of radio waves on a  
10       selected perch channel and controlling said warning section;  
11               said control circuit section reporting, when said control circuit section  
12       detects a radio wave interference fault, ~~contents a type~~ of the fault to said  
13       warning section so that said warning section ~~may give~~ provides a warning of  
14       radio wave interference in a predetermined form ~~in which the radio~~  
15       ~~interference warning is displayed includes a rate of occurrences of~~  
16       ~~retransmission per unit data measured during the communication~~ based on at  
17       least one of visibility and audibility.
- 1       2. (currently amended) A portable telephone radio set with an interference  
2       detection function as claimed in claim 1, wherein said control circuit section  
3       detects a radio wave interference fault in the course of a selection operation of  
4       a standby channel from that at least one of loss of frame synchronization,  
5       deterioration in bit error rate, unfavorable reception of broadcast information

ND-363US  
Amendment dated 08/19/2004

09/708,516

01910030aa  
Reply to office action mailed 05/19/2004

6 and interruption of radio waves occurs in either one of conditions of out-of-  
7 zone indication and abandonment of the pertaining channel.

1 3. (original) A portable telephone radio set with an interference detection as  
2 claimed in claim 1, wherein said control circuit section detects a radio wave  
3 interference fault in the course of a zone switching operation which is caused  
4 by the presence of a channel having a higher reception level than that of the  
5 channel being waited from that at least one of loss of frame synchronization,  
6 deterioration in bit error rate, unfavorable reception of broadcast information  
7 and interruption of radio waves occurs in a condition of abandonment of the  
8 pertaining channel.

1 4. (currently amended) A portable telephone radio set with an interference  
2 detection function as claimed in claim 1, wherein said control circuit detects a  
3 radio wave interference fault during communication from that a level value  
4 detected when the level of each perch ~~channel-channel~~, other than a peripheral  
5 perch channel designated from a base ~~station-station~~, is measured ~~is as being~~  
6 higher than a predetermined threshold value.

1 5. (previously presented) A portable telephone radio set with an interference  
2 detection function as claimed in claim 1, wherein said control circuit section  
3 detects a radio wave interference fault during communication when the  
4 channel is switched to a channel of a level lower than the level of the channel  
5 which has been used for communication until then, the cause of the channel  
6 switching being at least one of loss of frame synchronization, deterioration in  
7 bit error rate, and interruption of radio waves occurs.

ND-363US  
Amendment dated 08/19/2004

09/708,516  
Reply to office action mailed 05/19/2004

01910030aa

1       6. (previously presented) A portable telephone radio set with an interference  
2       detection function as claimed in claim 1, wherein the predetermined form in  
3       which the radio wave interference warning is displayed includes an abandoned  
4       channel number.

1       7. (previously presented) A portable telephone radio set with an interference  
2       detection function as claimed in claim 1, wherein the predetermined form in  
3       which the radio wave interference warning is displayed includes a number of  
4       occurrences of retransmission per unit time measured during the  
5       communication.

1       8. (canceled)

1       9. (new) A portable telephone radio set with an interference detection  
2       function as claimed in claim 1, wherein the predetermined form in which the  
3       radio wave interference warning is displayed includes a rate of occurrences of  
4       retransmission per unit data measured during the communication.